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| APPLICATION NO.           | FILING DATE         |                  | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |  |
|---------------------------|---------------------|------------------|----------------------|---------------------|------------------|--|
| 10/643,552                | 08/19/2003          |                  | Benjamin Meseguer    | CH-7904/LeA 36,181  | 4924             |  |
| 34947                     | 7590                | 12/21/2005       |                      | EXAMINER            |                  |  |
|                           | CORPORA<br>ARK WEST | <del>-</del> _ · | PERLINGER, SARAH E   |                     |                  |  |
| PITTSBURGH, PA 15275-1112 |                     |                  |                      | ART UNIT            | PAPER NUMBER     |  |
|                           |                     |                  |                      | 1625                |                  |  |

DATE MAILED: 12/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

|   | Application No.  | Applicant(s)   |              |  |  |  |
|---|--|--|--------------|--|--|--|
|   | 10/643,552   | MESEGUER ET AL.  |              |  |  |  |
| Office Action Summary   | Examiner   | Art Unit   |              |  |  |  |
|   | Sarah E. Perlinger   | 1625   |              |  |  |  |
| The MAILING DATE of this communication app<br>Period for Reply  | ears on the cover sheet with   | the correspondence a   | ddress       |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D/ - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICA<br>36(a). In no event, however, may a reposite and will expire SIX (6) MONTH, cause the application to become ABAN | ATION.  by be timely filed  IS from the mailing date of this on the mailing date of the mailing da | •            |  |  |  |
| Status  |  |  |              |  |  |  |
| 1)⊠ Responsive to communication(s) filed on 19 A  | uauet 2003   |  |              |  |  |  |
| · · · · · · · · · · · · · · · · · ·   | action is non-final.   |  |              |  |  |  |
| 3) Since this application is in condition for allowar   |  | s prosecution as to th   | e merits is  |  |  |  |
| , ==-   | closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  |  |              |  |  |  |
| Disposition of Claims   |  | ,  |              |  |  |  |
| 4)⊠ Claim(s) <u>1-38</u> is/are pending in the application.   |  |  |              |  |  |  |
| 4a) Of the above claim(s) is/are withdrawn from consideration.  |  |  |              |  |  |  |
| 5) Claim(s) is/are allowed.   |  |  |              |  |  |  |
| 6) Claim(s) is/are rejected.  |  |  |              |  |  |  |
| 7) Claim(s) is/are objected to.   |  |  |              |  |  |  |
| 8) Claim(s) <u>1-38</u> are subject to restriction and/or e   | election requirement.  |  |              |  |  |  |
| Application Papers  |  |  |              |  |  |  |
| 9) The specification is objected to by the Examine  | r.   |  |              |  |  |  |
| 10) The drawing(s) filed on is/are: a) acce   |  | the Examiner.  |              |  |  |  |
| Applicant may not request that any objection to the   | , , ,  |  |              |  |  |  |
| Replacement drawing sheet(s) including the correct  | ion is required if the drawing(s)  | is objected to. See 37 C   | FR 1.121(d). |  |  |  |
| 11)☐ The oath or declaration is objected to by the Ex   | aminer. Note the attached (  | Office Action or form P  | TO-152.      |  |  |  |
| Priority under 35 U.S.C. § 119  | •  |  |              |  |  |  |
| 12) Acknowledgment is made of a claim for foreign   | priority under 35 U.S.C. § 1   | 19(a)-(d) or (f).  |              |  |  |  |
| a) ☐ All b) ☐ Some * c) ☐ None of:  |  |  |              |  |  |  |
| <ol> <li>Certified copies of the priority documents</li> </ol>  | s have been received.  |  |              |  |  |  |
| 2. Certified copies of the priority documents   | s have been received in App  | olication No   |              |  |  |  |
| 3. Copies of the certified copies of the prior  | rity documents have been re  | eceived in this Nationa  | l Stage      |  |  |  |
| application from the International Bureau   | , , , ,  |  |              |  |  |  |
| * See the attached detailed Office action for a list  | of the certified copies not re   | eceived.   |              |  |  |  |
|   |  |  |              |  |  |  |
| Attachment(s)   | _  |  |              |  |  |  |
| 1) Notice of References Cited (PTO-892)   | 4) Interview Sur   | mmary (PTO-413)<br>Mail Date   |              |  |  |  |
| <ol> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> </ol>   |  | ormal Patent Application (PT   | O-152)       |  |  |  |
| Paper No(s)/Mail Date   | 6)  Other:   | ,  |              |  |  |  |

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## **DETAILED ACTION**

## Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-9, 11-15, 17-18, drawn to furan-based compounds and processes for preparing furan-based compounds, classified in class 549, subclass 29.
- II. Claim 10, drawn to alcohol-based compounds, classified in class 568, subclass763.
- III. Claim 16, drawn to polycyclic heterocycle compounds, classified in class 549, subclass 50.
- IV. Claims 19-28, 38, drawn to transition metal complexes and catalysts comprising transition metal complexes, classified in class 549, subclass 206.
- V. Claims 29-31, drawn to a process for preparing stereoisomerically enriched compounds comprising providing transition metal complexes, classified in class 549, subclass 206.
- VI. Claim 32, drawn to a process for catalyzing reactions comprising providing metal complexes according to claim 19, classified in class 549, subclass 206.
- VII. Claims 33-37, drawn to a process for preparing steroisomerically enriched compounds, characterized in that the catalysts used are those which comprise transition metal complexes, classified in class 549, subclass 206.

The inventions are distinct, each from the other because:

Each group of claims is drawn to a patentably distinct "product" or a process of using patentably distinct products. Each distinct product is not related to any other distinct

product i.e. furan-based compounds of group I are not related to a distinct compound such as the alcohol-based compounds of group II. The search for i.e. furan-based compounds of group I would not be coextensive or necessary for example for the search of group II of alcohol-based compounds of group II. Such independent and distinct products must be examined separately.

Inventions IV and V are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the process of preparing stereoisomerically enriched compounds can be achieved using a different product than that of group IV. For example, dimethyl cyclohexene-1,2-dicarboxylate can be hydrogenated over a Platinum catalyst to yield dimethyl cyclohexane-cis-1,2-dicarboxylate.

Inventions IV and VI are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the process of catalyzing reactions can be achieved using a different product than group IV. For example, hydrochloric acid can be used to catalyze an ester hydrolysis reaction.

Inventions IV and VII are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the process for preparing stereoisomerically enriched compounds by catalytic hydrogenation of olefins can be achieved using a different product than group IV. For example, dimethyl cyclohexene-1,2-dicarboxylate can be hydrogenated over a Platinum catalyst to yield dimethyl cyclohexane-cis-1,2-dicarboxylate.

Because these inventions are independent and distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are independent and distinct for the reasons given above and the search required for one group is not required for any other group, searching all the inventions would be burdensome, therefore restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Should applicant traverse on the ground that the groups are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the groups to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention. In the instant case, applicant will not have patentability over any of the claims because there is anticipation for group IV over Jackson et al. (*Aust. J. Chem.* 1982, 35, 2069-2075).

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Applicant is reminded that upon the cancellation of claims to a non-elected invention, the

inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the

currently named inventors is no longer an inventor of at least one claim remaining in the

application. Any amendment of inventorship must be accompanied by a request under 37 CFR

1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Sarah E. Perlinger whose telephone number is 571-272-5574.

The examiner can normally be reached on 8:30 a.m.-5:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Cecilia Tsang can be reached on 571-272-0562. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

12/15/05

Celia Chang

Primary Examiner

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